

SATELLITE OBSERVATIONS CONDUCTED BY THE
STADE TRACKING STATION

H. Köhnke

FACILITY FORM 808

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Translation of "Visuelle Satellitenbeobachtungen durchgeführt
von Satellitenstation Stade."

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/1*

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Coordinates: 53° 35' 20" North
09° 27' 36" East

Altitude above normal zero: sea level: 7.5 m
Cospar-Station No.: 2567

Date Rev. No.	Object Catalog No.	Code Name	Time GMT	Mag.	Light change Tumbling
12/19/64 1.635	1964-53 A 876	Kosmos 44	From 16.09-16.10, from SW-NE in NW 50° altitude	+5	Flashing ! Tumbling 4.65 sec ?
12/19/64 26.141	1960 Eps. 036 3	Capsule of Sputnik 4	From 16.17-16.19, from SW-NE in NW 80° altitude	Zenith +2 in NE +1	Steady
12/19/64 2.976	1964-30 A 811	64-30 A Starflash 1	Briefly, between 16.50 and 16.51, from N-W, in NW 30-35°	+2	Steady varying
12/19/64 7.977	1963-22 A 594	1963-22 A Mushroom Transit ?	From 17.00-17.01, from S-N, in W 88-90°	+7	Steady

First observation of this object!

*Numbers given in the margin indicate the pagination in the original foreign text.

Date Rev. No.	Object Catalog No.	Code Name	Time GMT	Mag.	Light change Tumbling
12/19/64	1964-76 A	Explorer 24	From 17.28-17.30,	+3	Steady
	931		from S-N, in East		
			35-40° high. At		
			17.30 beginning of	+4	
			nuclear shadow of		
			Earth		

New Satellites Observed by me:

1) 1963-22 A: This satellite had an apparent brightness of +7 at a vertical altitude of about 745 km and horizontal altitude of about 88-90° W. No light changes were observed during transit. Observed with 11x field glasses.

Remarks About Satellite 1964-76 A - Explorer 24

Brightness of Explorer 24 at an altitude of about 1,000 km at my observation apparent brightness of +3 - +4 magnitude. Despite full moonlight, satellite could sometimes be observed quite well with the naked eye. This observation clearly shows that Explorer 24 is considerably brighter than Explorer 19. My earlier observations of Explorer 19, which are also available at your Institute, have clearly indicated that the Explorer 19 satellite, at an altitude of about 1,000 km, cannot be seen with the naked eye. Further observations will follow.

Object 1960. Epsilon 3: Sputnik 4 capsule was very bright during its transit 26.141 on 12/19/64.

With friendly greetings
Very truly yours,
(signed) (Horst Köhnke)
Satellitenstation Stade
216 Stade/Elbe
Thuner Str. 98a
Western Germany

Date Rev. No.	Object Catalog No.	Code Name	Time GMT	Mag.	Light change Tumbling
12/8/64 4.276	1964-4 A 740	Echo 2	From 06.25-06.30, from S-N, in West 25-30°	0 - 2	Steady
12/8/64 4.366	1963-30 A 622	Midas 7	From 20.09-20.11, from S-N, in East 85-90°	+7 - +7.5	Steady, varying, occasional- ly flashing
Proximity to Polaris at 20.11 hours GMT					

Dear Mr. Goett:

To you and all at the Goddard Space Flight Center a joyous Christmas and a healthy, peaceful and successful 1965.

I hope for continued good cooperation in cosmic space investigation with the USA.

With friendly greetings heartily as ever,

Your obedient

(signed) (Horst Köhnke)

Satellitenstation Stade
216 Stade/Elbe
Thuner Str. 98a
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